


# Fiscal Year 2013 Budget Estimates

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The background of the slide is a composite image of a galaxy, likely the Milky Way, showing a bright, dusty central region with a dense concentration of stars and a dark, star-filled background. The text is overlaid on this image.

*NASA's Vision*

*To reach for new heights  
and  
reveal the unknown  
so that  
what we do and learn  
will  
benefit all humankind*

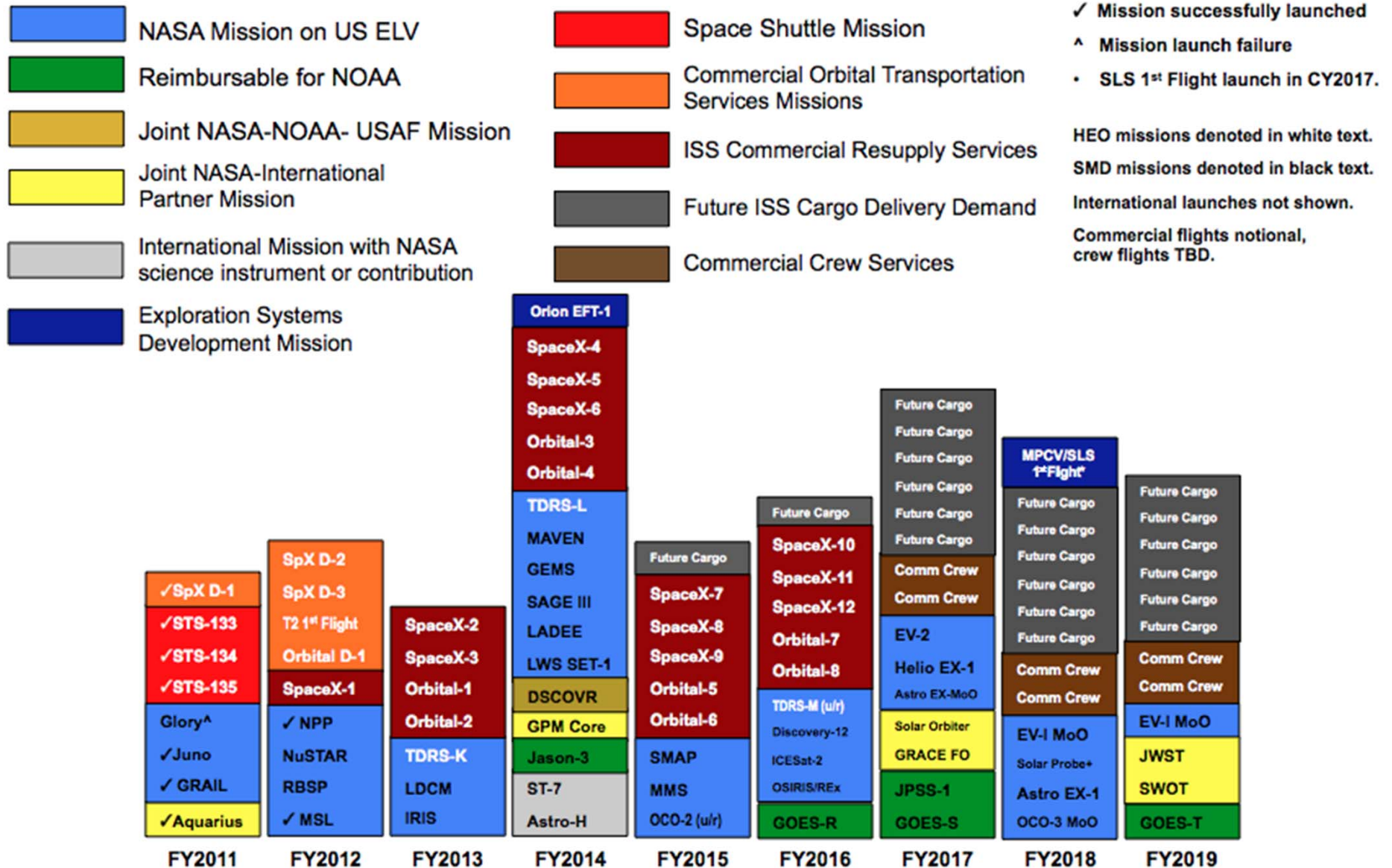
# Overview

- We have made tough but sustainable choices to provide stability and continuity to existing programs and set an affordable pace for unfolding the next great chapter in exploration.
- We are making steady and tangible progress building the next-generation, deep space crew capsule and heavy-lift rocket; expanding use of the International Space Station to improve life on Earth and help make the next great leaps in scientific discovery and exploration; and partnering with American companies to create new transportation capabilities to reach low-Earth orbit, stimulate the economy and decrease our reliance on foreign launch providers.
- We are facilitating industry's innovation to develop access to low earth orbit, bringing work to American companies and supporting an economy built to last. This will allow NASA to focus on the big things that no one else can do and at the same time open an entirely new segment of the economy.
- We are driving advances in new aviation and space technologies like laser communications and zero-gravity propellant transfer, seeding innovation that will expand our capabilities in the skies and in space, support economic vitality, and help create new jobs and expanded opportunities for a skilled workforce.
- We are developing an integrated strategy to ensure that the next steps for the robotic Mars Exploration program will support science as well as long-term human exploration goals. The missions currently at Mars, the Mars Science Laboratory on its way, and MAVEN well into development, will help us understand the Red Planet and our needs in future years to meet the President's challenge to send humans to Mars in the mid-2030s.
- We are building and operating a balanced portfolio of innovative science missions that will reach farther into our solar system, reveal unknown aspects of our universe and provide critical data about our home planet.
- We are inspiring the next generation of scientists, technologists, engineers and astronauts.



# NASA Mission Launches

(Fiscal Years 2011 - 2020)





# 2013 Highlights

- The Budget accomplishes these goals by:
  - ✓ Developing a heavy-lift rocket and crew capsule, with an un-crewed test flight planned for as early as 2017 and a crewed flight as early as 2021.
  - ✓ Continuing the commitment to fully using the International Space Station as a National Laboratory, as a unique platform to enable future exploration, and as a facility that brings nations together in a common pursuit of knowledge and experience.
  - ✓ Embracing partnership with the U.S. commercial space industry to enable safe, reliable, and cost effective access to low Earth orbit for crew and cargo and to reduce American reliance on foreign services.
  - ✓ Pursuing a portfolio of research and technology investments that will increase the nation's capability to operate in space and enable long-term deep space exploration. These investments, which will increase the capability and decrease the cost of NASA, commercial, and other government space activities, include numerous high payoff, high risk technology projects that industry cannot tackle today.

## 2013 Highlights, *continued*

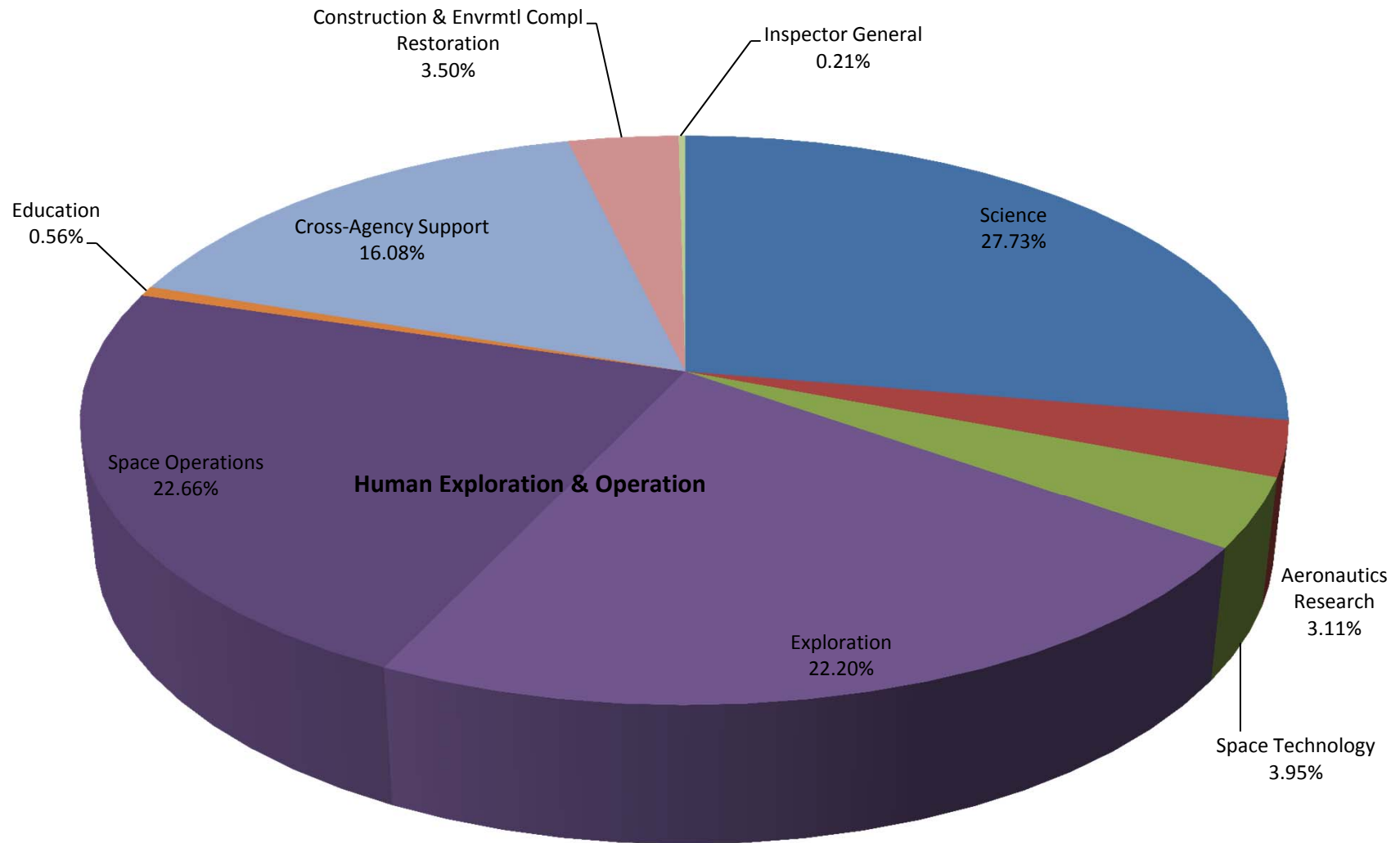
- ✓ Continuing toward launch in 2018 of the James Webb Space Telescope which will again revolutionize our understanding of the universe.
- ✓ Pacing the development of our Mars science program to reflect an integrated strategy for long-term human and robotic exploration of the Red Planet.
- ✓ Taking care of Earth by providing critical long-term data that will help understand our planet's changes and enable more effective responses to natural disasters. We are committed to our work with other government agencies to track and address potential threats from near-Earth asteroids, solar flares, space weather, and other phenomena.
- ✓ Conducting cutting edge aeronautics research with an increased focus on enhancing aviation safety and efficiency of aircraft and the airspace, increasing performance and reducing environmental impacts.
- ✓ Developing and inspiring the next generation of explorers through STEM education activities throughout NASA's programs.
- ✓ Focusing on long-term affordability and efficiency through right-sizing and renewing NASA capabilities and infrastructure, and reducing administrative costs.



# Important Considerations

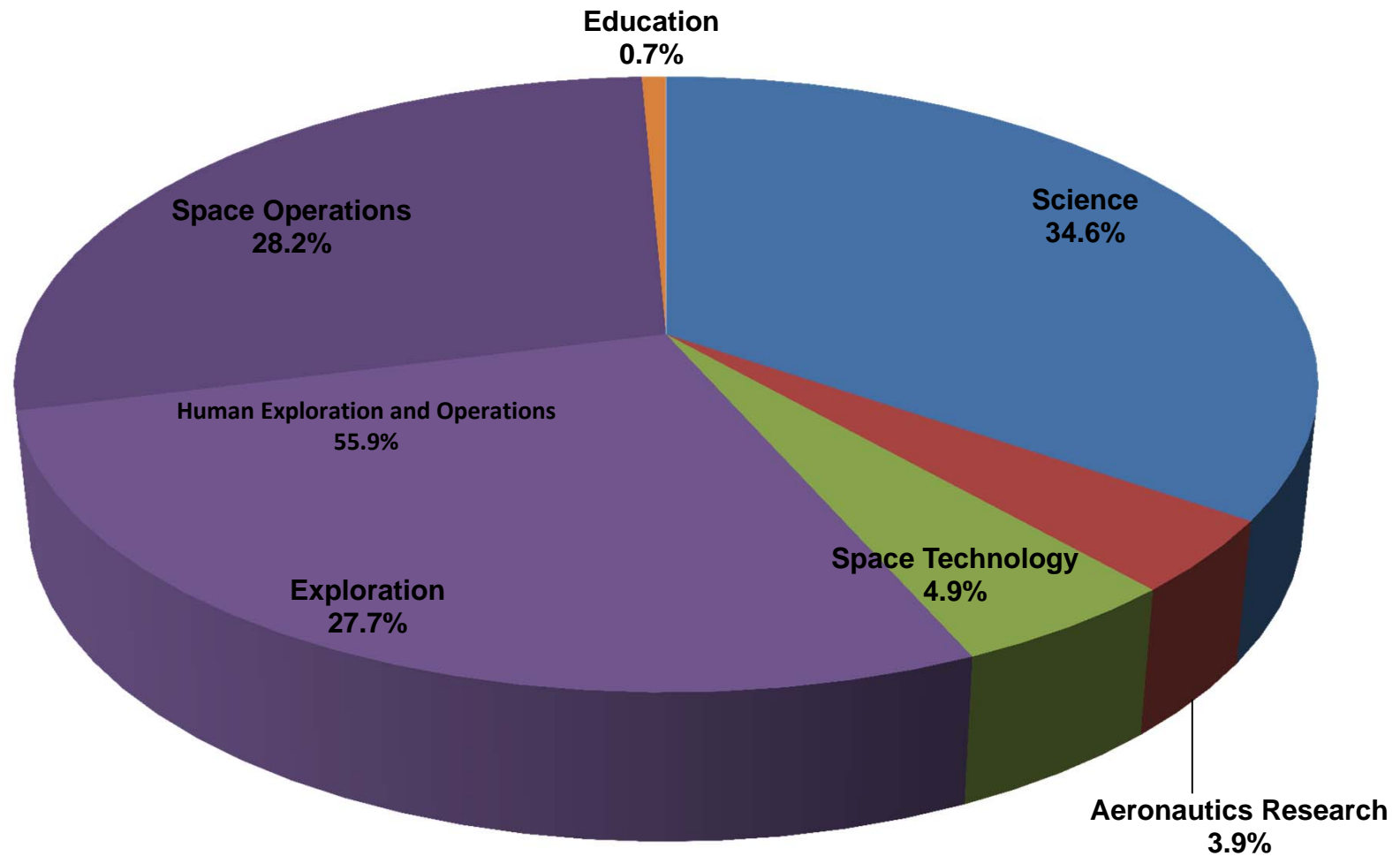
- Out-year Funding Assumptions. In this time of national fiscal austerity, NASA has accepted the challenge to manage to a flat out-year top-line budget. At this time, funding lines beyond FY13 should be considered notional. In general, NASA accounts are held at their FY 2013 request level, adjusted for the amounts transferred to the construction account in FY 2013.
- Campaign to Promote Efficient and Effective Spending. This budget continues NASA's efforts to improve operational efficiency and maintains reduced spending for service contracting, travel, supplies and materials, and printing and reproduction:
  - Consolidation of major IT contracts under the IT Infrastructure Integration Program (I3P)
  - Rationalization of facilities and infrastructure
  - Energy management improvements
  - Reductions in administrative expenses and service contracting
- Aligning and Right-sizing the NASA Workforce
  - Aligning human capital with the priority requirements of the Agency
  - Reduces the rate of re-hiring in FY2013 consistent with budget limitations
- Presentation in full-cost, where all project costs are allocated to the project, including labor funding for the Agency's civil service workforce.

# NASA Budget – FY 2013 - \$17.7 Billion

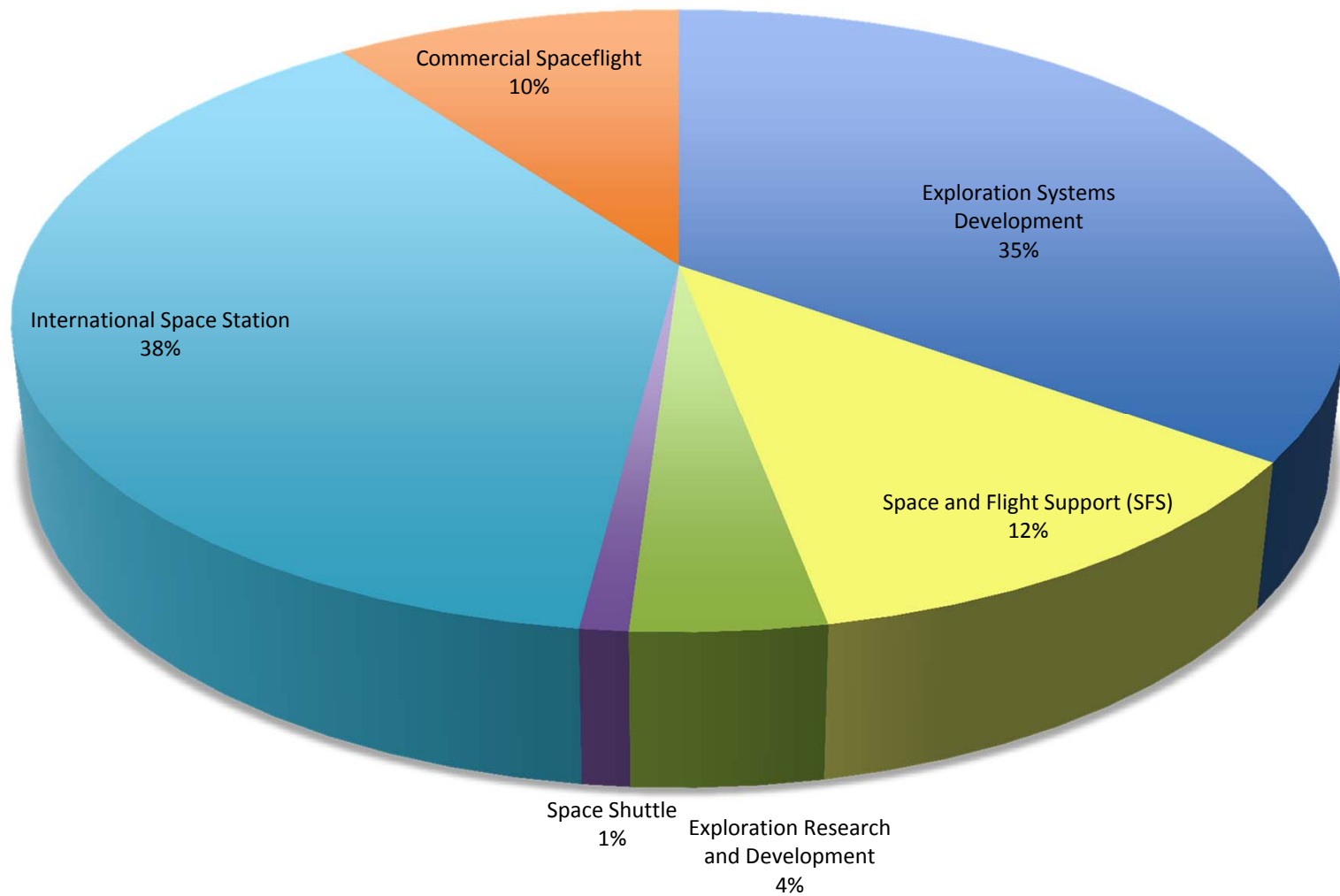




# NASA Programmatic Budget

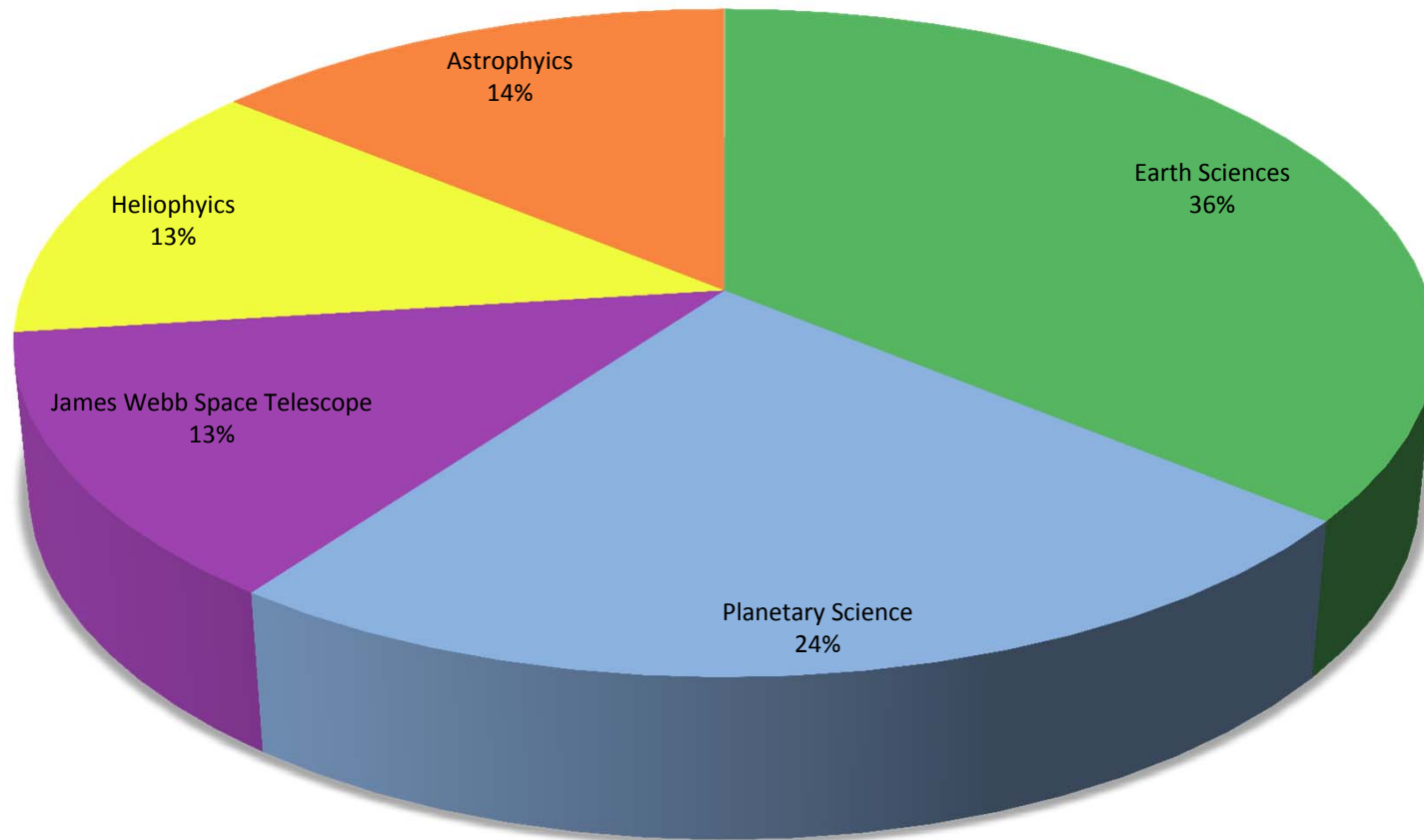


# NASA Human Spaceflight - \$7.9 Billion





# NASA Science - \$4.9 Billion



# Education

Outyears are notional

	2013	2014	2015	2016	2017
Education	\$100	\$100	\$100	\$100	\$100

- NASA will align the Education Portfolio (Office of Education, Mission Directorate and Center activities) with the priorities and strategies in the NSTC Co-STEM 5-Year Strategic Plan
- The budget will also focus on competitive opportunities for learners and educators; middle school pre- and in-service educator professional development; provide experiential opportunities, internships, and scholarships for high school and undergraduate students; and use NASA's unique missions, discoveries, and assets to inspire student achievement and educator teaching ability in STEM fields
- The Minority University Research and Education Project (MUREP) continues to support the nation's Historically Black Colleges and Universities, Hispanic Serving Institutions and Tribal Colleges through multi-year STEM grants to enhance their research capabilities and STEM curricula.
- The budget also encourages collaboration between government, academia, and industry to leverage NASA's investments in STEM to reach a greater number of students and educators.

